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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/659,943	09/11/2003	James Gorecki	SNPS.0248DIV1	5069
36503	7590	05/29/2007	EXAMINER	
SYNOPTSYS, INC			JAIN, RAJ K	
c/o PARK, VAUGHAN & FLEMING LLP			ART UNIT	
2820 FIFTH STREET			PAPER NUMBER	
DAVIS, CA 95618-7759			2616	
			MAIL DATE	DELIVERY MODE
			05/29/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

58

Office Action Summary	Application No. 10/659,943	Applicant(s) GORECKI ET AL.	
	Examiner Raj K. Jain	Art Unit 2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 September 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 11-25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 11-25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 September 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>1/14/04 1/08/07</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: 213, 214, 221-225 and 231-235 (Figure 2). Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The disclosure is objected to because of the following informalities:

- a. In pages 1, 2, 10 and 20, the attorney docket numbers should be removed.
- b. In pages 2, 10 and 20, the application numbers of all non-provisional applications listed should be inserted.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 13, 14, 21 and 22 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The subject claims recite in particular "shelf software loop" while the specification "mentions" shelf software loop" however it is not clear what it constitutes and how it is to be used within the invention and therefore fails to enable one of ordinary skill in the art to make and/or use the invention.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 11, 12, 15-20, 23-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over McMillen et al. (U.S. Patent 5,872,904) in view of Nounin et al (USP 5,203,027).

Regarding claims 11, 18, 19 and 25, McMillen discloses a system 10 in Figure 1 for providing a bi-directional communications channel 24 between at least two processor modules (PM) 12, where the processor modules 12 communicate with each other (col. 5, lines 17-19) using TAXI transceivers 26 on each end of a transmission channel 24 (Fig. 1A), which are used to serialize and de-serialize data for transmission over channel 24 (col. 6, lines 44-47). Each transceiver inherently includes a transmitter and a receiver, wherein a transmitter portion of each transceiver 26 transmits forward channel 32 data and back channel 34 data by converting the parallel data received from controller 18 into serial data for transmission (col. 6, lines 50-53, 57-58), and a receiver portion of each transceiver 26 receives serial data from the communications channel 24, and converts the serial data back into parallel data for input to the controller 18 (col. 6, lines 53-57, 58-60). Thus, the two TAXI transceivers 26 together comprise at least two transmitter modules, one for each direction of the bi-directional communications channel 24, each transmitter module transmitting bits of a forward channel 32 (i.e. user data) and a back channel 34 (i.e. back channel data) over communications channel 24 by converting the data into a high speed serial form that encodes clock information into the data stream, and vice versa (col. 6, lines 48-50), where the at least two TAXI together further comprise at least two receiver modules, one for each direction of the bi-directional communications channel 24, each receiver module receiving bits of a forward channel 32 (i.e. user data) and a back channel 34 (i.e. back channel data) transmitted by the complementary transceiver on the opposite end of communications

channel 24, each transceiver decoding the parallel data into the serial data with the recovered clock (col. 6, lines 48-50, 57-60).

McMillen fails to disclose a tap with adjustable coefficient.

Nounin discloses a tap with adjustable coefficient (see abstract, Fig. 8 ref. 96a, col 8 lines 56-67). An adjustable tap coefficient provides for equalizing the incoming signal to prevent large error deviations for the existing signal and the new signal. Thus it would have been obvious at the time the invention was made to incorporate the teachings of Nounin within McMillen so as enhance network performance by equalizing the incoming signal with large error deviations via the adjustable tap.

Regarding claims 12, 15, 17, 20, and 23, McMillen discloses external back channels 34 (see Fig. 1b).

Regarding claims 16 and 24, McMillen discloses a computer system (fig. 1) which inherently incorporates software link to coordinate communication processes.

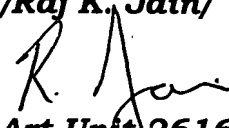
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raj K. Jain whose telephone number is 571-272-3145. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2616

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Raj K. Jain/

Art Unit 2616

May 23, 2007